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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/788,535	02/26/2004	Yoshitaka Araki	2986-PAT	6909	
30084	7590 10/02/2006		EXAMINER		
DONN K. H		FRANCI	FRANCIS, FAYE		
PATENT & TRADEMARK LAW CENTER SUITE 100 12702 VIA CORTINA			ART UNIT	PAPER NUMBER	
			3725		
DEL MAR, (CA 92014		DATE MAILED: 10/02/200	6 .	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary		Application No.	Applicant(s)			
		10/788,535	ARAKI, YOSHITAKA			
		Examiner	Art Unit			
		Faye Francis	3725			
Period fo	The MAILING DATE of this communication apported to the second section apported to the second section apport	pears on the cover sheet with the	correspondence address -	-		
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailine ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION AND A THIS COMMUNICATION AND A THIS COMMUNICATION BY A THIS COMMUNI	ON. timely filed om the mailing date of this communical NED (35 U.S.C. § 133).			
Status						
1)🖂	Responsive to communication(s) filed on 26 J	ulv 2006.				
	- · · · · · · · · · · · · · · · · · · ·	s action is non-final.				
3)		application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under the					
Dispositi	ion of Claims					
4)🖂	Claim(s) 8-18 is/are pending in the application	• I.				
	4a) Of the above claim(s) is/are withdra					
5)	Claim(s) is/are allowed.					
6)⊠	Claim(s) <u>8-18</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)[Claim(s) are subject to restriction and/o	or election requirement.				
Applicati	on Papers					
9)[The specification is objected to by the Examine	er.				
10)[The drawing(s) filed on is/are: a) acc	epted or b) objected to by the	Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. S	ee 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is o	bjected to. See 37 CFR 1.12	1(d).		
11)	The oath or declaration is objected to by the Ex	xaminer. Note the attached Offic	e Action or form PTO-152.			
Priority ι	under 35 U.S.C. § 119		·			
_	Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of:	priority under 35 U.S.C. § 119(a)-(d) or (f).			
	1. Certified copies of the priority document					
	2. Certified copies of the priority document	• •				
	3. Copies of the certified copies of the prior		ved in this National Stage			
+ 0	application from the International Burea		d			
- 3	See the attached detailed Office action for a list	or the certified copies not receive	/ea.			
Attachmen	t(s)					
_	e of References Cited (PTO-892)	4) Interview Summa	ry (PTO-413)			
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail	Date			
	mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal 6) Other:	ratent Application			
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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hockmeyer [5,497,948] in view of Shen [5,611,619] and Dairoku et al. [US 2003/0008946], hereinafter Dairoku.

Hockmeyer discloses in Figs 1-7, a compound dispersing [basket media mill 10] comprising a basket-shaped vessel 60, the vessel adapted contain dispersing media particles [beads 76] in an interior cavity formed therein, the vessel adapted for submersion in a tank [basket 12] filled with a compound [col 2 lines 58-67], a plurality of stirrer vanes [rods 140] housed within the vessel, each engaged at first ends with an elongated shaft extending in the interior cavity, the shaft defining a central axis of the cavity; each stirrer vane extending a first distance from the axis to a distal edge; means to rotate the shaft thereby rotate the stirrer vanes, a secondary vanes [impeller assembly 150] and a driving mechanism [col 4 lines 41-52].

Hockmeyer does not disclose a plurality of plate shaped stirrer vanes, a rotation driving mechanism for rotating the stirrer vanes in the vessel along with the vessel in opposite directions, a plurality of stirrer fins each engaged at first end with an interior wall of the vessel whereby the distal end reaches a momentary substantial alignment

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with a corresponding the distal edge the of one of the stirrer vanes during each rotation and a gap formed between the distal end and the distal edge during the momentary alignment.

Shen teaches, in the relevant art, the concept of providing a mixing container 2 with a rotation driving mechanism for rotating the stirrer vanes [mixing blade unit 5] in the vessel along with the vessel in opposite directions [col 3 lines 15-44] and a plurality of stirrer fins [blades 53] each engaged at first end with an interior wall of the vessel whereby the distal end reaches a momentary substantial alignment [one on top of the other] with a corresponding the distal edge the of one of the stirrer vanes 5 during each rotation and a gap[Fig 3] formed between the distal end and the distal edge during the momentary alignment. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the device of Hockmeyer with the rotation driving mechanism for rotating the stirrer vanes in the vessel along with the vessel in opposite directions as taught by Shen in order to more efficiently disperse the material compound within the basket. Additionally, it would have been obvious to provide the device of Hockmeyer with the plurality of stirrer fins in order to better mix the material compound within the basket.

Dairoku teaches that plate shaped stirrer vanes are conventional [Fig 2]. It would have been obvious to one of ordinary skill in the art at the time the invention was made, in view of Dairoku to make the stirrer vanes in the modified device of Hockmeyer in a shape of a plate in order to even further enhance the movement of the mixture within vessel.

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With respect the limitation in claims 17-18 that the dispersing media particles having a diameter; and the gap being a distance between 6 times the diameter, this limitation would have been obvious design choice once the basic structure was known, as it solves no stated problem [see page 20 of the specification] and of no patentable merit.

Response to Arguments

3. Applicant's arguments filed 8/30/06 have been fully considered but they are not persuasive.

In response to applicant's argument on pages 2-3, the examiner would like to point out that Shen and Dairoku references have been applied only to show that stirrer fins each engaged at first end with an interior wall of a vessel and plate shaped stirrer vanes respectively are conventional.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Faye Francis whose telephone number is 571-272-4423. The examiner can normally be reached on M-F 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Derris Banks can be reached on 571-272-4419. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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FF

Faye Francis
Primary Examiner
Art Unit 3725